# Multiplication and Division: Written Methods for Division 

## Aim:

Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.

DfE Ready-to-Progress Criteria:
Divide a number with up to 4 digits by a onedigit number using a formal written method, and interpret remainders appropriately for the context (5MD-4).

To divide 4-digit numbers by 1-digit numbers with remainders

## Success Criteria:

I can use the formal method correctly.
I can work methodically, always beginning with the largest number.
I can exchange numbers correctly when necessary.

I can write my remainder correctly in my answer.

## Key/New Words:

Divide, division, dividend, divisor, equal, equally, digit, place value, multiplication, remainder.

Resources:
Lesson Pack
Four-Digit Place Value Chart - as required

## Preparation:

Differentiated Division with Remainders Activity Sheets - one per child
Diving into Mastery Activity Sheets as required

Prior Learning: It will be helpful if children have completed lessons 1 and 2 in this series on dividing 4-Digits by 1-Digit (without exchanging).

## Learning Sequence

 | Remember It: Use the corresponding slide in the Lesson Presentation and display it as a static slide. This |
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| provides the perfect opportunity for partner talk or children can work individually, practising fluency-based |
| skills on the multiplication tables. |


|  | Dividing with Remainders: Using the differentiated Dividing with Remainders Activity Sheets, the children complete the tasks given using place value charts to support and work systematically. It might be helpful to supply counters or blocks to help children who may need manipulatives to support their learning. <br> To support children <br> Children working at <br> To challenge children working towards working at greater expected level, children depth, children will solve division will solve division calculations using the problems using the short division formal short division formal method with usually method and more than one exchange. Some one exchange. Some questions will require questions will require them to think about them to think about how the remainder how the remainder should be included in should be included in the answer. the answer. They will also check division calculations to identify any mistakes. |  |
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| $\sim$ | Diving into Mastery: Schools using a mastery approach may prefer to use the following as an alternative activity. These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding. <br> Children complete fluency activities related to dividing with remainders <br> Children answer reasoning questions related to dividing with remainders, ensuring they explain their reasoning. <br> Children work individually or collaboratively on problem-solving questions related to dividing with remainders. | $\bigcirc$ |
| ${ }^{2}$ | Think it Over: Display the slide of the Lesson Presentation and use the prompts to generate either a paired, group or class discussion about which is the correct answer and why. Can the children write my remainder correctly in their answer? | 0 |

Exploreit
Learnit: Children will find this superb Knowledge Organiser helpful during lessons.

